

TITLE OF THE INVENTION

DNA Encoding the Human Serine Protease EOS

ABSTRACT OF THE INVENTION

5           Here we describe the molecular identification of a cDNA  
encoding a novel serine protease we have termed protease EOS. The  
deduced amino acid sequence, and its alignment with other well-  
characterized serine proteases indicates that it is a member of the  
S1 serine protease family. We have found that the protease EOS mRNA  
10 is expressed in platelets and leukocytes and more specifically  
eosinophils. Although this protease is abundantly expressed in  
ovary, retina and stomach, where it may perform important functions,  
its expression in platelets and certain cells of the immune system  
suggests that it may play roles in thrombosis and in the immune  
15 process. Enzymatically active protease EOS is amenable to further  
biochemical analyses for the identification of physiological  
substrates and specific modulators

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